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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	IO. CONFIRMATION NO.	
10/556,221	04/17/2006	Yves De Koninck	CU-4511 RJS	3628	
26530 LADAS & PAR	7590 02/10/2009 RRY LLP		EXAMINER		
	ICHIGAN AVENUE	LOCKARD, JON MCCLELLAND			
SUITE 1600 CHICAGO, IL	60604		ART UNIT	PAPER NUMBER	
			1647		
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			02/10/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Ар	olication No.	Applicant(s)	Applicant(s)			
		10.	/556,221	DE KONINCK ET	DE KONINCK ET AL.			
		Exa	ıminer	Art Unit				
		JOI	N M. LOCKARD	1647				
 Period for	The MAILING DATE of this communic	ication appears	on the cover sheet w	with the correspondence ac	ddress			
WHICH - Extens after S - If NO p - Failure Any re	RTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE M ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this commoderid for reply is specified above, the maximum state to reply within the set or extended period for reply by received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a). unication. ututory period will app will, by statute, cause	OF THIS COMMUN In no event, however, may a ly and will expire SIX (6) MC the application to become a	ICATION. The reply be timely filed EXAMPLE 133 PARTIES AND SET IN THE METERS AND SET I	·			
Status								
1) ∑ F	Responsive to communication(s) file	d on <i>17 April 2</i>	006					
· · · · · · · · · · · · · · · · · · ·		2b)⊠ This actio						
′—		/ —		tters prosecution as to the	e merits is			
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·	oo anaon Ex pa	110 Quayro, 1000 O.	D. 11, 100 O.G. 210.				
Dispositio	n of Claims							
4)🛛 (4)⊠ Claim(s) <u>1-30,44-53,65 and 81</u> is/are pending in the application.							
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌 (5) Claim(s) is/are allowed.							
6)□ (Claim(s) is/are rejected.							
7) 🗌 (Claim(s) is/are objected to.							
8)🛛 (Claim(s) <u>1-30,44-53,65 <i>and</i> 81</u> are s	ubject to restri	ction and/or election	requirement.				
Applicatio	n Papers							
9)□ T	he specification is objected to by the	e Examiner						
•	-		d or b)□ objected to	by the Examiner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
					ED 1 121/d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ur	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Informa	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Pation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	TO-948)	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application				

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-21 and 53, in so far as they are drawn to a method for treating or preventing pain, comprising modulating the activity of a chloride transporter.

Group II, claim(s) 1-14, 21, and 52, in so far as they are drawn to a method for treating or preventing pain, comprising modulating the expression of a chloride transporter.

Group III, claim(s) 22-30, in so far as they are drawn to a composition comprising a compound of undisclosed constitution which modulates the activity of a chloride transporter.

Group IV, claim(s) 22-30, in so far as they are drawn to a composition comprising a compound of undisclosed constitution which modulates the expression of a chloride transporter.

Group V, claim(s) 44 and 49, drawn to a method for screening compounds which decrease intracellular chloride levels in a CNS-derived cell.

Group VI, claim(s) 45-48, in so far as they are drawn to a method for screening compounds which modulate the activity of a chloride transporter.

Group VII, claim(s) 45-47, in so far as they are drawn to a method for screening compounds which modulate the expression of a chloride transporter.

Group VIII, claim(s) 50-52, drawn to a method for screening compounds which interact with a chloride transporter.

Group IX, claim(s) 65, drawn to a method for diagnosis, comprising determining CNS intracellular chloride levels.

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Group X, claim(s) 81, drawn to a method for treatment of pain in a subject, comprising determining CNS intracellular chloride levels and decreasing an intracellular chloride level in a CNS cell of said subject.

The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Pursuant to 37 C.F.R. § 1.475(B-D), the ISA/US considers that where multiple products and processes are claimed, the main invention shall consist of the first invention of the category first mentioned in the claims and the first recited invention of each of the other categories related thereto. Accordingly, the main invention (Group I) comprises the first recited method, a method for treating or preventing pain, comprising modulating the activity of a chloride transporter. Groups II-X do not share the same or corresponding special technical feature because the Group II invention is drawn to a method a method for treating or preventing pain, comprising modulating the expression of a chloride transporter, the Group III invention is drawn to a composition comprising a compound of undisclosed constitution which modulates the activity of a chloride transporter, the Group IV invention is drawn to a composition comprising a compound of undisclosed constitution which modulates the expression of a chloride transporter, the Group V invention is drawn to a method for screening compounds which decrease intracellular chloride levels in a CNS-derived cell, the Group VI invention is drawn to a method for screening compounds which modulate the activity of a chloride transporter, the Group VII invention is drawn to a method for screening compounds which modulate the expression of a chloride transporter, the Group VIII invention is drawn to a method for screening compounds which interact with a chloride transporter, the Group IX invention is drawn to a method for diagnosis, comprising determining CNS intracellular chloride levels, and the Group X invention is drawn to a method for treatment of pain in a subject, comprising determining CNS intracellular chloride levels and decreasing an intracellular chloride level in a CNS cell of said subject. Lack of unity is shown because these methods lack a common utility which is based upon a common technical feature which has been identified as the basis for that common utility.

Election of Species:

2. This application contains claims directed to more than one species of the generic invention. Specifically, the claims are directed to more than one species of compounds which are capable of increasing KCC2 activity. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

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(1) inhibitor of TrkB, (2) inhibitor of cyclic AMP-dependent kinase (PKA), and (3) an inhibitor of calmodulin-dependent kinase (CAM kinase).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

3. The claims are deemed to correspond to the species listed above in the following manner:

Species (1): claims 15 and 16,

Species (2): claims 17 and 18, and

Species (3): claims 19 and 20

The following claim(s) are generic: at least claim 14 is generic.

4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the individual compounds are structurally and functionally different chemical compounds, having different structures and activities. The methods utilizing the different agents also lack the same or corresponding special technical feature for the same reasons. Lack of unity is shown because these compounds lack a common utility which is based upon a common structural feature which has been identified as the basis for that common utility.

5. Applicant is advised that the reply to this requirement to be complete must include (i) an

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election of a species or invention to be examined even though the requirement may be traversed

(37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

6. The election of an invention or species may be made with or without traverse. To

preserve a right to petition, the election must be made with traverse. If the reply does not

distinctly and specifically point out supposed errors in the restriction requirement, the election

shall be treated as an election without traverse.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Rejoinder:

8. The examiner has required restriction between product and process claims. Where

applicant elects claims directed to the product, and the product claims are subsequently found

allowable, withdrawn process claims that depend from or otherwise require all the limitations of

the allowable product claim will be considered for rejoinder. All claims directed to a nonelected

process invention must require all the limitations of an allowable product claim for that process

invention to be rejoined.

9. In the event of rejoinder, the requirement for restriction between the product claims and

the rejoined process claims will be withdrawn, and the rejoined process claims will be fully

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examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jon M. Lockard**, **Ph.D.** whose telephone number is **(571) 272-2717**. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Manjunath N. Rao, Ph.D.**, can be reached on **(571) 272-0939**. The fax number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jon M. Lockard, Ph.D. February 6, 2009

/Jon M Lockard/ Examiner, Art Unit 1647